Colbert COLSF 8, 2 VI

ABC LABORATORIES, INC.
EAST 4922 UNION AVENUE
SPOKANE, WA 99219
509-534-0161

REPORT TO: Spokane County Dept. of Utilities
N. 811 Jefferson
Spokane, WA 99210

LAB NO: 33317-90
DATE: 2-12-90
SAMPLE DATE: 2-7-90

ATTN: Bruce Austin

P.O.#:

DESCRIPTION: Perform Volatile Organic Scan on submitted samples from the wells in the Colbert Landfill area. Analyses performed by methods outlined in proposal of December 8th, 1988.

DETECTION LIMITS: 1 part per billion

ND: Not Detected

This document contains six pages.

Respectfully Submitted,
ABC LABORATORIES, INC.

W.E. Burkhardt
Manager

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 33317-90

NAME WELL NO.	Travel Blank 2-7-90	Lab Blank 2-7-90	Travel Blank 2-8-90	Lab Blank 2-8-90	Lab Blank 2-9-90	(b) (6) 1573F-1
Chloroform	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethane	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Trichloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1,1-Trichloroethane	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Tetrachloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Methylene Chloride	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 33317-90
NAME (b) (6)

WELL NO.	1573K-3	1073J-1	1573R-1	1073M-4	1573C-10	1073B-1
Chloroform	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethane	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Trichloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1,1-Trichloroethane	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Tetrachloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Methylene Chloride	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 33317-90
NAME (b) (6)

WELL NO.	1073D-1	0273P-3	1573H-2	1473M-1	1473D-2	1073M-2
Chloroform	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethane	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethylene	**ND**	**1**	**ND**	**ND**	**ND**	**ND**
Trichloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1,1-Trichloroethane	**ND**	**37**	**ND**	**19**	**ND**	**ND**
Tetrachloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Methylene Chloride	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 33317-90

NAME	(b) (6)			North Glen Estates	North Meadows	(b) (6)
WELL NO.	0273C-4	0273F-2	0273C-5	1073D-2	1573A-2	1473C-5
Chloroform	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethane	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Trichloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1,1-Trichloroethane	**ND**	**ND**	**ND**	**6**	**ND**	**ND**
Tetrachloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Methylene Chloride	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 33317-90
NAME (b) (6)

WELL NO.	1573F-2	1573C-6	0273D-2	0373A-2	1073L-2	2273A-1
Chloroform	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethane	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Trichloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1,1-Trichloroethane	**ND**	**<1**	**ND**	**ND**	**ND**	**ND**
Tetrachloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Methylene Chloride	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

LAB # 33317-90
02/12/90

AREA 05-01-89

SYMBOL	LAYER	DESCRIPTION
	ROADS	EXISTING ROADS
	20 LINE	20' CONTOUR LINES
	POWER	TRANSMISSION & RLR
	WATER	RIVERS & STREAMS
	GRID	1/16 SECTIONS
	LOT BLK	SHORT PLATS
	SHALLOW	WELLS UNDER 120' DEEP
	DEEP	WELLS OVER 120' DEEP
	OTHER	WELLS OVER OTHER AQUIFER
		COLBERT LANDFILL

NOTE:
FOR IDENTIFICATION OF WELLS SEE WELL OWNER/NUMBER LEGEND

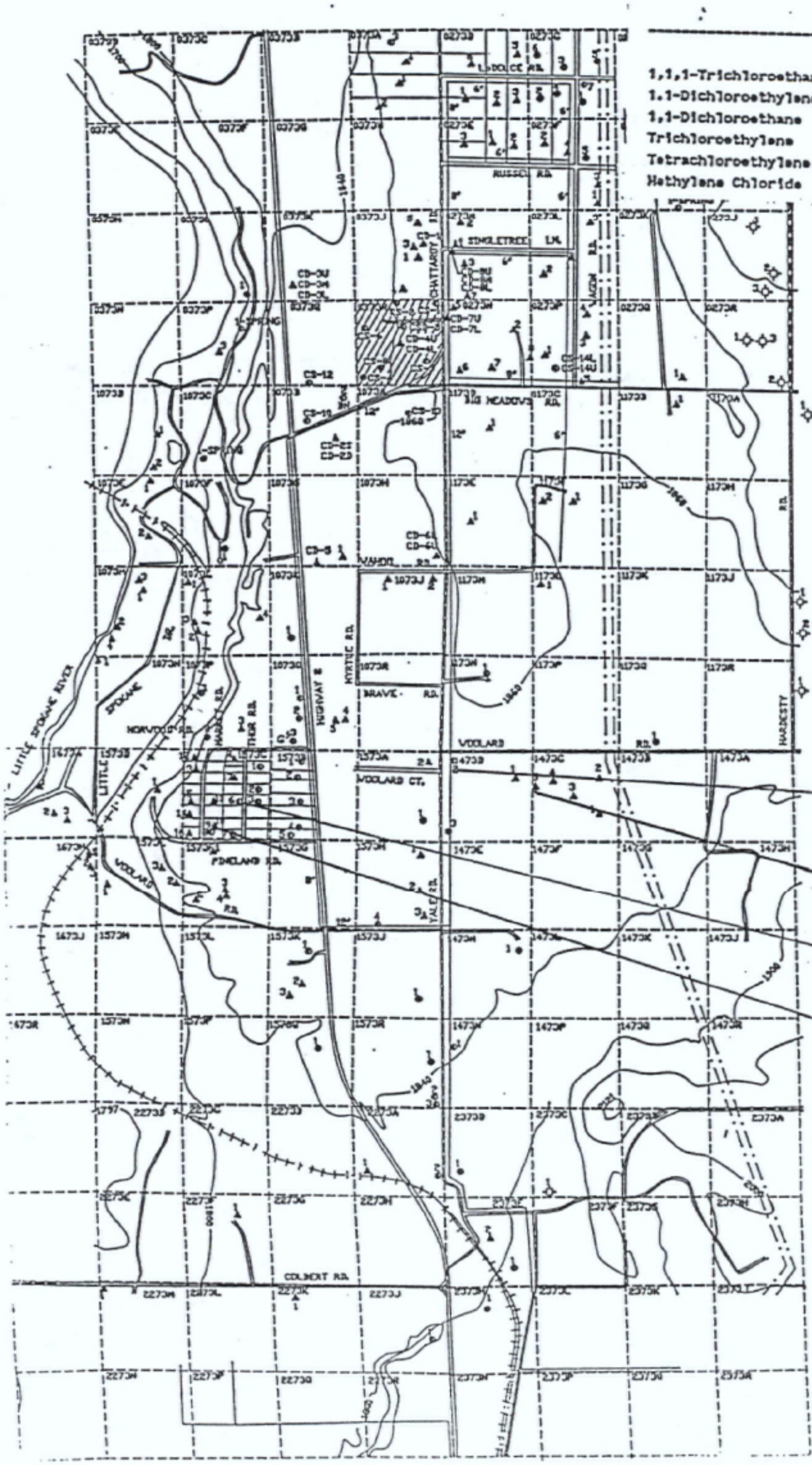
PERFORMANCE STANDARDS

MAXIMUM ALLOWABLE CONTAMINANT CONCENTRATIONS

Health Protection Levels*

* Health Protection Levels are not to be exceeded, during operational life of remedial action in effluents from groundwater treatment systems. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.

Contaminant		Maximum Concentration parts per billion (ug/l)	Basis
1,1,1-Trichloroethane	(TCA)	200.0	MCL
1,1-Dichloroethylene	(DCE)	7.0	MCL
1,1-Dichloroethane	(DCA)	4050.0	MAC
Trichloroethylene	(TCE)	5.0	MCL
Tetrachloroethylene	(PCE or TETRA CL)	0.7	10 -6 cancer risk
Methylene Chloride	(MC)	2.5	10 -6 cancer risk



SHALLOW

FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR.
(b) (6)	14730-2	ND	ND	ND	ND	ND	ND	

DEEP

FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR.
(b)	1473C-5	ND	ND	ND	ND	ND	ND	

SHALLOW

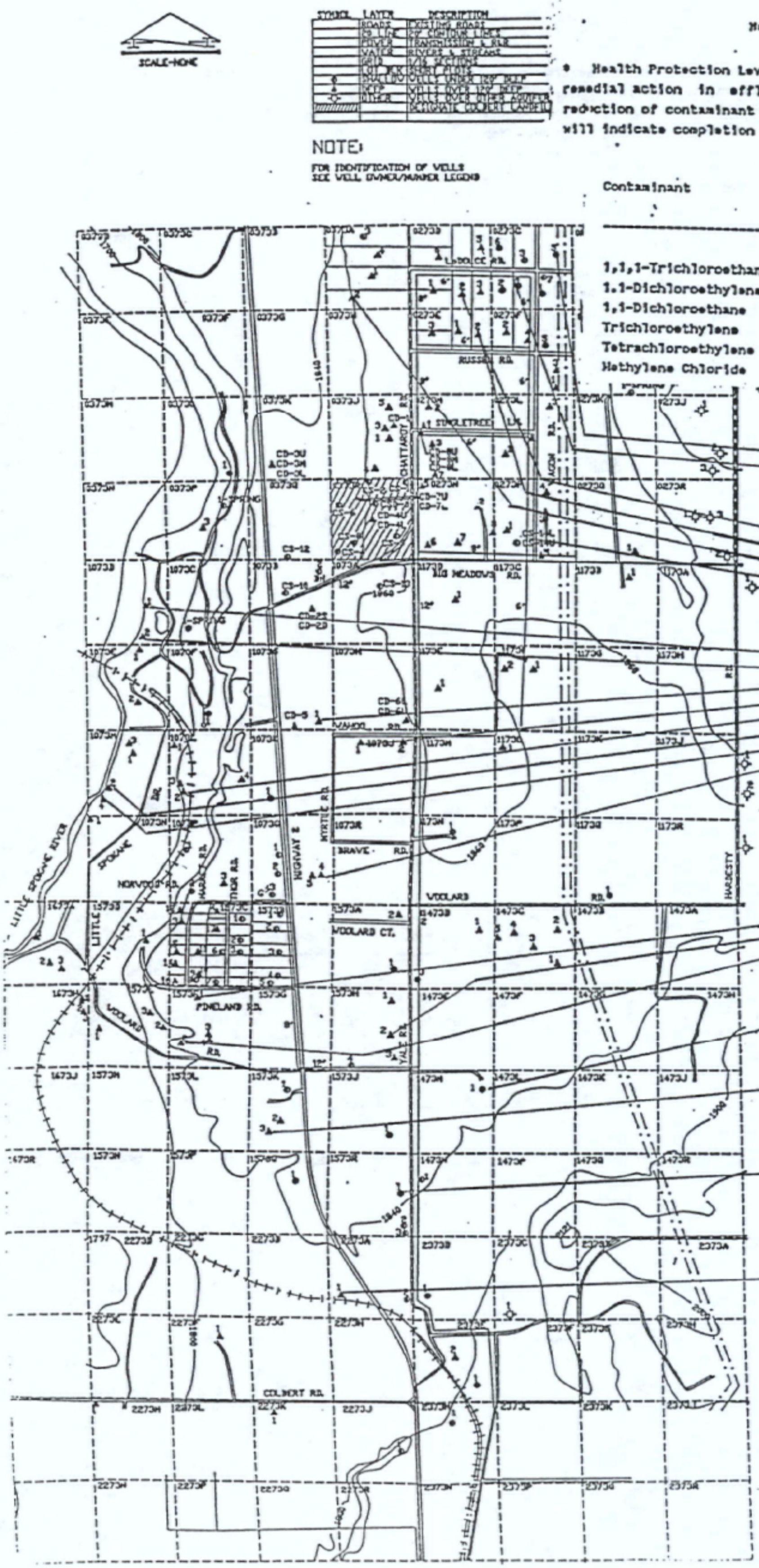
FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR.
(b) (6)	1573C-8	<1	ND	ND	ND	ND	ND	

DEEP

FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR.
(b) (6) (NEW-NORTH)	1573C-10	ND	ND	ND	ND	ND	ND	

LAB # 33317-90
02/12/90

AREA 05-01-89



PERFORMANCE STANDARDS

MAXIMUM ALLOWABLE CONTAMINANT CONCENTRATIONS

Health Protection Levels*

* Health Protection Levels are not to be exceeded, during operational life of remedial action in effluents from groundwater treatment systems. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.

Contaminant		Maximum Concentration parts per billion (ug/l)	Basis
1,1,1-Trichloroethane	(TCA)	200.0	HCL
1,1-Dichloroethylene	(DCE)	7.0	HCL
1,1-Dichloroethane	(DCA)	4050.0	HAC
Trichloroethylene	(TCE)	5.0	HCL
Tetrachloroethylene	(PCE or TETRA CL)	0.7	10 -6 cancer risk
Methylene Chloride	(MC)	2.5	10 -6 cancer risk

SHALLOW

FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR
(b) (6)	0273C-3	ND	ND	ND	ND	ND	ND	
	0273C-4	ND	ND	ND	ND	ND	ND	

DEEP

FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR
(b) (6)	0273D-2	ND	ND	ND	ND	ND	ND	
	0273E-2	ND	ND	ND	ND	ND	ND	
	0373A-2	ND	ND	ND	ND	ND	ND	
	0273P-3	37	1	ND	ND	ND	ND	

DEEP

FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR
(b)	1073D-1	ND	ND	ND	ND	ND	ND	
	1073D-2	6	ND	ND	ND	ND	ND	
(b) (6)	1073G-1	ND	ND	ND	ND	ND	ND	
	1073J-1	ND	ND	ND	ND	ND	ND	
	1073L-2	ND	ND	ND	ND	ND	ND	
	1073M-2	ND	ND	ND	ND	ND	ND	
	1073M-4	ND	ND	ND	ND	ND	ND	
N MEADOWS	1073Q-4	ND	ND	ND	ND	ND	ND	

DEEP

FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR
(b) (6)	1573F-1	ND	ND	ND	ND	ND	ND	
	1573H-2	ND	ND	ND	ND	ND	ND	
	1573F-2	ND	ND	ND	ND	ND	ND	

SHALLOW

FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR
(b) (6)	1473M-1	19	ND	ND	ND	ND	ND	

DEEP

FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR
(b) (6)	1573K-3	ND	ND	ND	ND	ND	ND	

SHALLOW

FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR
(b) (6)	1573R-1	ND	ND	ND	ND	ND	ND	

DEEP

FEB 12, 90 #33317-90	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM	METH CHLOR
(b) (6)	2273A-1	ND	ND	ND	ND	ND	ND	